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# **USB Virtual COM Quick Start**

## **User Guide**

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**RF ID**<sub>EAS</sub>

## Install the Windows CDC Reader Configuration Utility

1. Plug the pcProx CDC device into the USB port. The Found New Hardware Wizard displays.



2. Select **Yes, this time only**. Click **Next**.
3. Check **Include this location in the search**.
4. Uncheck **Search removable media (floppy, CD-ROM...)**.

5. Select **Install from a list or specific location (Advanced)**. Click **Next**.
6. Click **Browse** and select the appropriate location. Click **Next**.



The Wizard installs the pcProx configuration utility.

7. Click **Finish**.



## Verify COM Port Connection

1. Click **Start** → **Control Panel** → **System**.



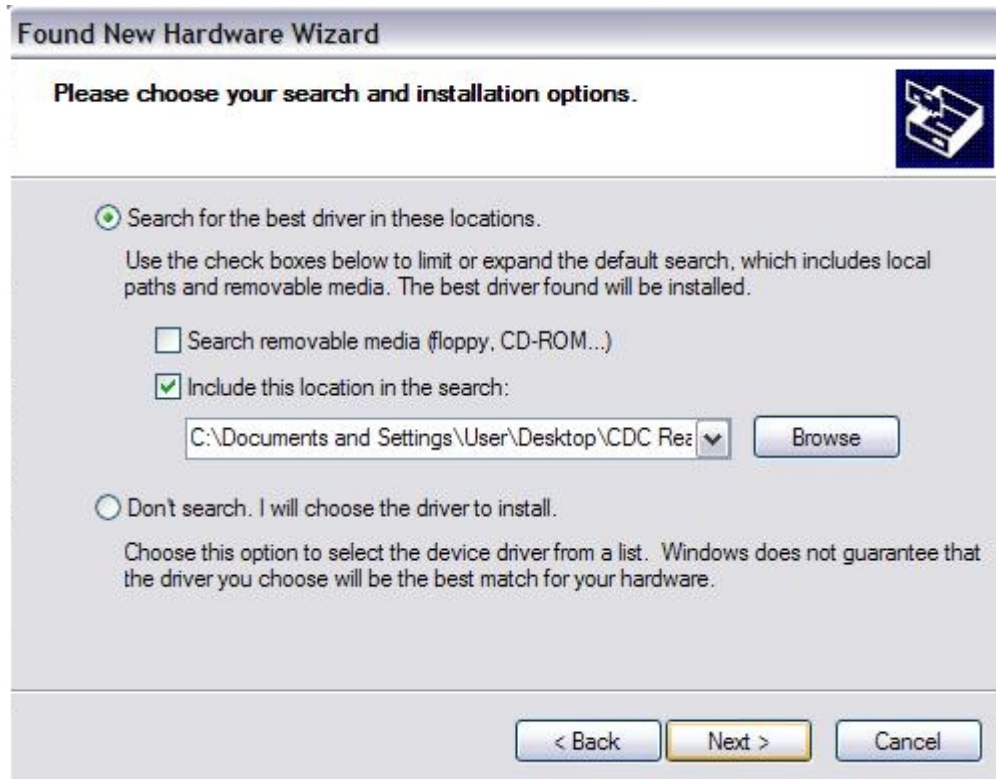
2. Click the **Device Manager**. Open the **Ports** list. Verify a new COM port is assigned to the CDC device.
3. Close Device Manager.

## Vista Installation

1. Plug the pcProx CDC device into the USB port. The Found New Hardware Wizard displays.
2. Select **Install from a list or specific location (Advanced)**. Click **Next**.



3. Check **Include this location in the search**.
4. Uncheck Search removable media (floppy, CD-ROM...).



5. Click **Browse** and select the appropriate location. Click **Next**.

The Wizard installs the pcProx configuration utility.

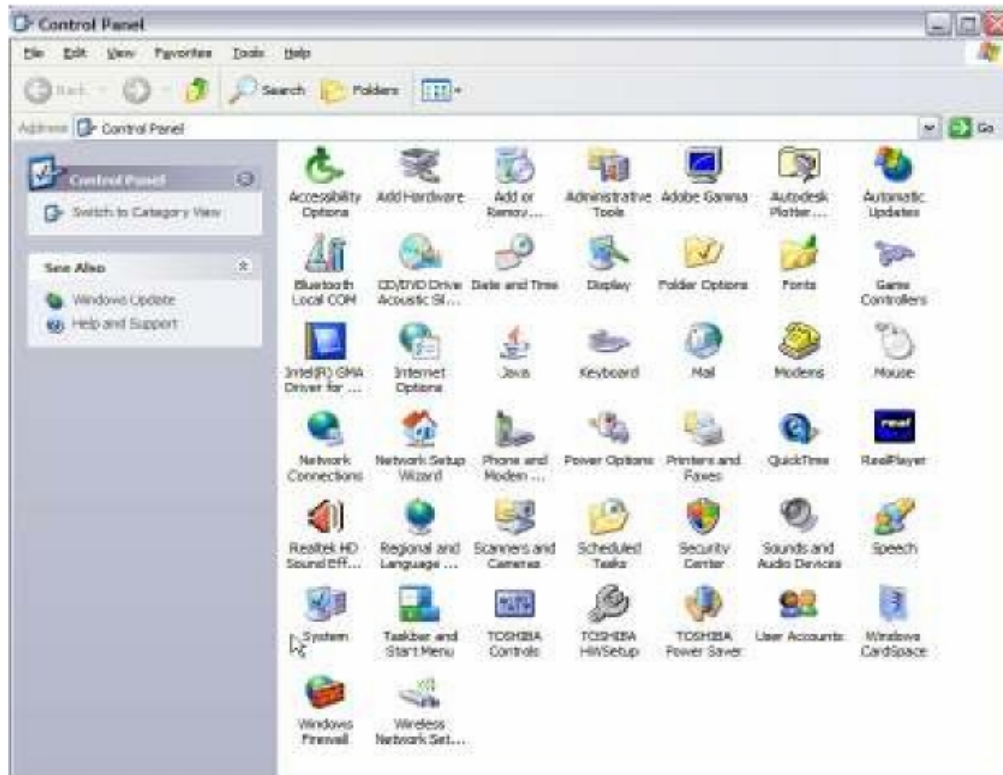
6. Click **Finish**.



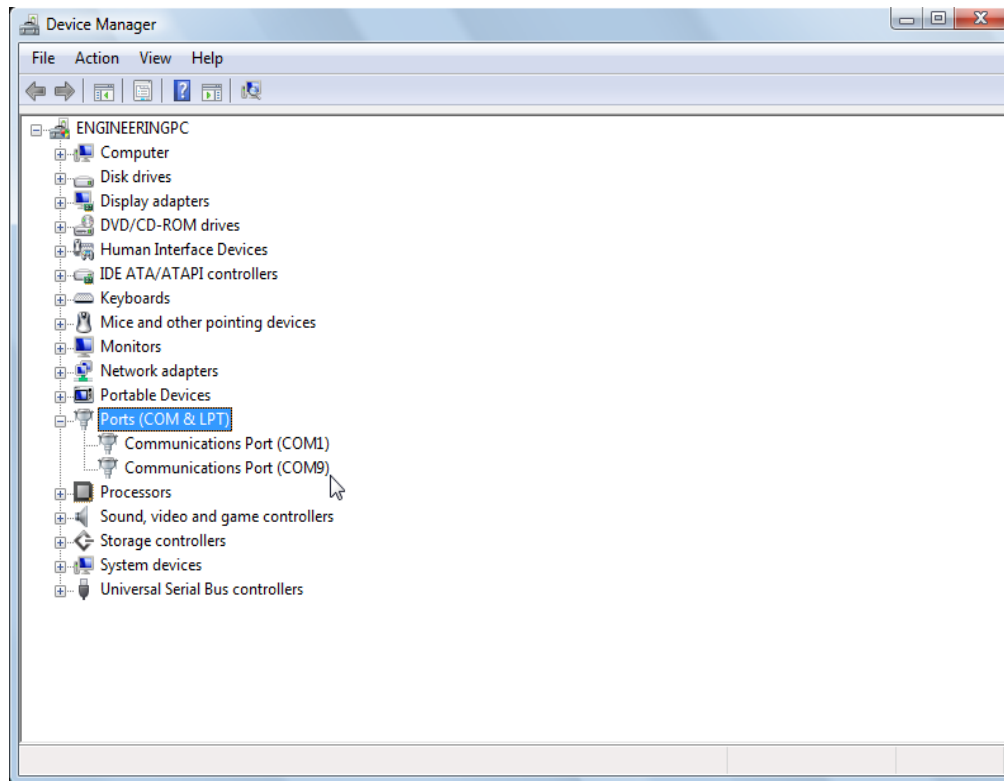


## Verify COM Port Connection

1. Click **Start** → **Control Panel** → **Device Manager**.



2. Open the **Ports** list. Verify a new COM port is assigned to the CDC device.



3. Close Device Manager.

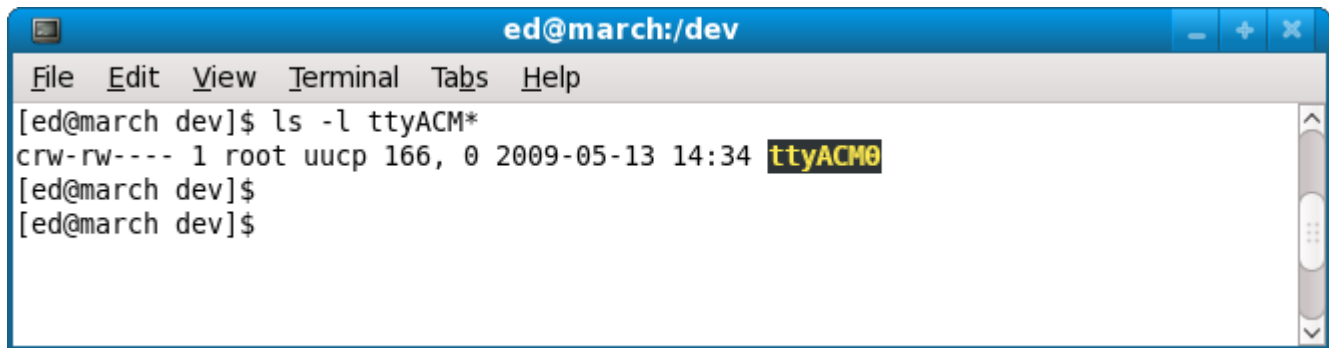
## Linux Installation

1. Enter `cd /dev` to change directories.
2. Enter `ls -ltra` to sort the files by date.

Note any files with today's date.

3. Plug in the device. Wait for the LED to turn red.
4. Enter `ls -ltra` in the /dev directory.

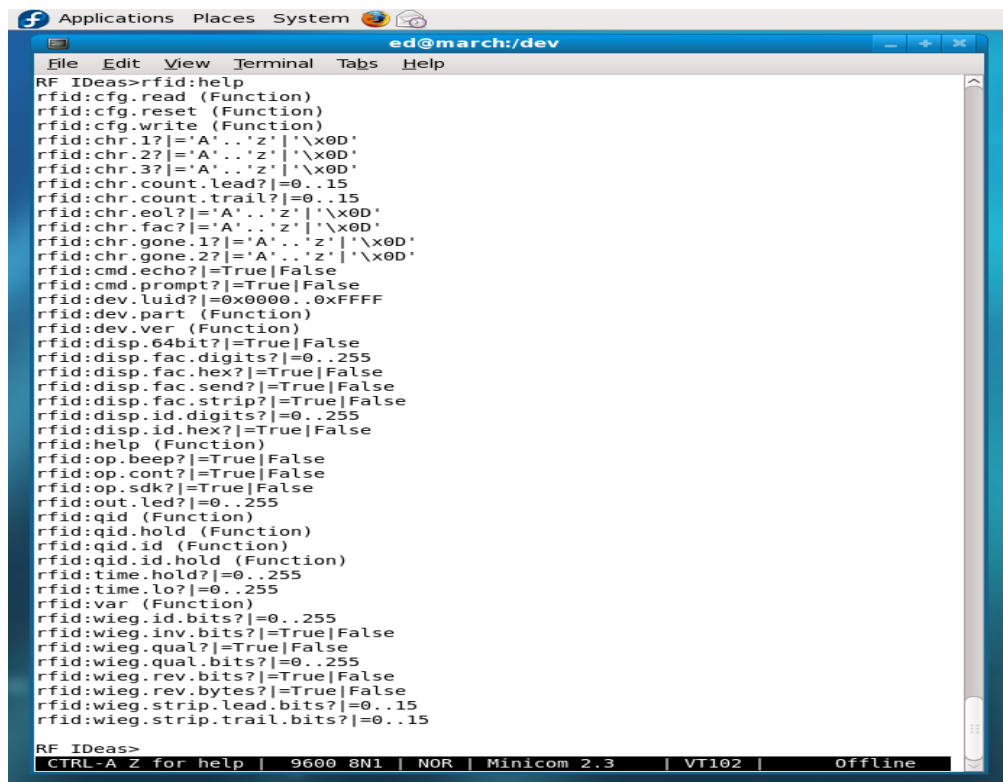
Typically, a new device file 'ttyACM0' displays in the file list.



```
ed@march:/dev
File Edit View Terminal Tabs Help
[ed@march dev]$ ls -l ttyACM*
crw-rw---- 1 root uucp 166, 0 2009-05-13 14:34 ttyACM0
[ed@march dev]$
[ed@march dev]$
```

5. Open minicom. Press **Enter**.

6. Type `rfid:help` at the RFIdeas prompt.



```
RF Ideas>rfid:help
rfid:cfg.read (Function)
rfid:cfg.reset (Function)
rfid:cfg.write (Function)
rfid:chr.17|='A'..'z'|'\x0D'
rfid:chr.27|='A'..'z'|'\x0D'
rfid:chr.37|='A'..'z'|'\x0D'
rfid:chr.count.lead?|=0..15
rfid:chr.count.trail?|=0..15
rfid:chr.eol?|='A'..'z'|'\x0D'
rfid:chr.fac?|='A'..'z'|'\x0D'
rfid:chr.gone.1?|='A'..'z'|'\x0D'
rfid:chr.gone.2?|='A'..'z'|'\x0D'
rfid:cmd.echo?|=True|False
rfid:cmd.prompt?|=True|False
rfid:dev.luid?|=0x0000..0xFFFF
rfid:dev.part (Function)
rfid:dev.ver (Function)
rfid:disp.64bit?|=True|False
rfid:disp.fac.digits?|=0..255
rfid:disp.fac.hex?|=True|False
rfid:disp.fac.send?|=True|False
rfid:disp.fac.strip?|=True|False
rfid:disp.id.digits?|=0..255
rfid:disp.id.hex?|=True|False
rfid:help (Function)
rfid:op.beep?|=True|False
rfid:op.cont?|=True|False
rfid:op.sdk?|=True|False
rfid:out.led?|=0..255
rfid:qid (Function)
rfid:qid.hold (Function)
rfid:qid.id (Function)
rfid:qid.id.hold (Function)
rfid:time.hold?|=0..255
rfid:time.lo?|=0..255
rfid:var (Function)
rfid:wieg.id.bits?|=0..255
rfid:wieg.inv.bits?|=True|False
rfid:wieg.qual?|=True|False
rfid:wieg.qual.bits?|=0..255
rfid:wieg.rev.bits?|=True|False
rfid:wieg.rev.bytes?|=True|False
rfid:wieg.strip.lead.bits?|=0..15
rfid:wieg.strip.trail.bits?|=0..15

RF Ideas>
CTRL-A Z for help | 9600 8N1 | NOR | Minicom 2.3 | VT102 | Offline
```

**Note:** The baud rates do not matter for CDC devices.

## MAC Installation

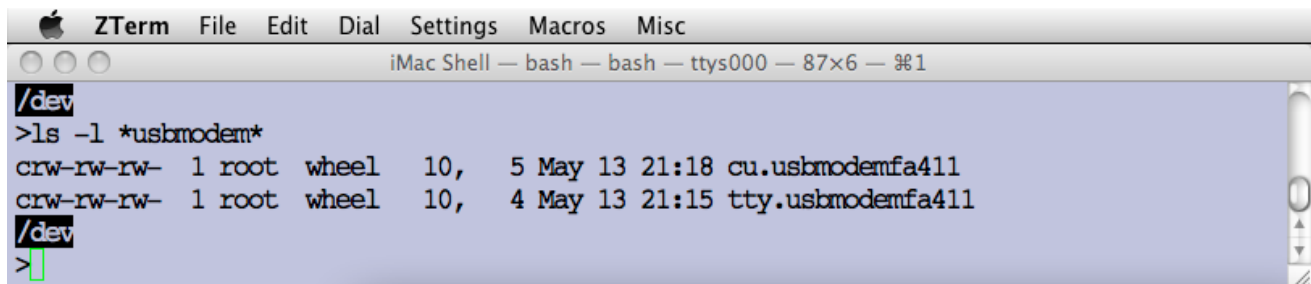
1. Enter `cd /dev` to change directories.
2. Enter `ls -ltra` to sort the files by date.

Note any files with today's date.

3. Plug in the device. Wait for the LED to turn red.
4. Enter `ls -ltra` in the /dev directory.

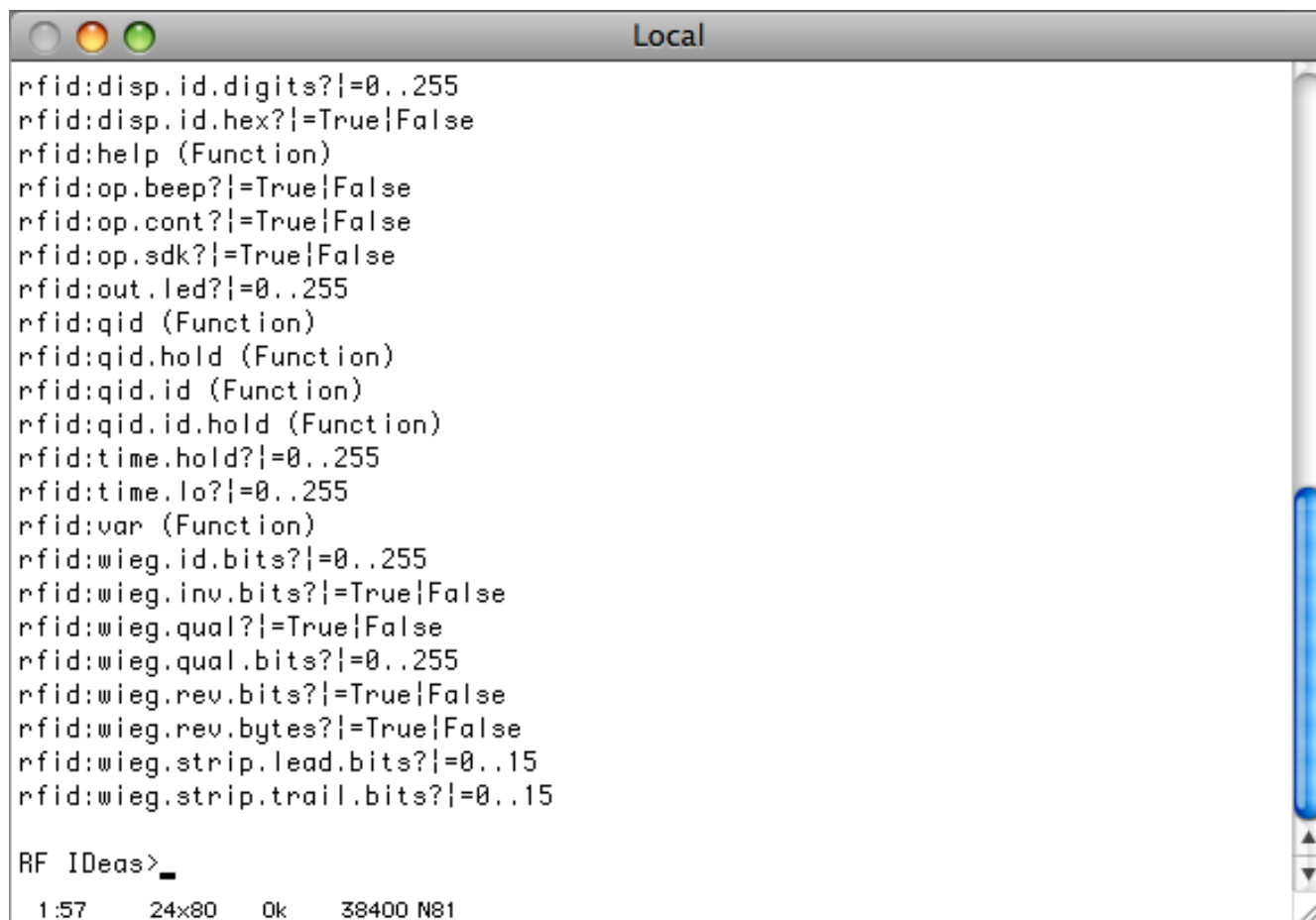
A new device file displays in the file list:

```
/dev/cu.usbmodemXXXXX  
/dev/tty.usbmodemXXXXX
```



```
Apple ZTerm File Edit Dial Settings Macros Misc  
iMac Shell — bash — bash — ttys000 — 87x6 — %1  
/dev  
>ls -l *usbmodem*  
crw-rw-rw-  1 root  wheel   10,   5 May 13 21:18 cu.usbmodemfa411  
crw-rw-rw-  1 root  wheel   10,   4 May 13 21:15 tty.usbmodemfa411  
/dev  
>
```

5. Download ZTerm (shareware) to display the serial devices.
6. Type **rfid:help** at the RFIDEas prompt.



```
rfid:disp.id.digits?=0..255
rfid:disp.id.hex?=True|False
rfid:help (Function)
rfid:op.beep?=True|False
rfid:op.cont?=True|False
rfid:op.sdk?=True|False
rfid:out.led?=0..255
rfid:qid (Function)
rfid:qid.hold (Function)
rfid:qid.id (Function)
rfid:qid.id.hold (Function)
rfid:time.hold?=0..255
rfid:time.lo?=0..255
rfid:var (Function)
rfid:wieg.id.bits?=0..255
rfid:wieg.inv.bits?=True|False
rfid:wieg.qual?=True|False
rfid:wieg.qual.bits?=0..255
rfid:wieg.rev.bits?=True|False
rfid:wieg.rev.bytes?=True|False
rfid:wieg.strip.lead.bits?=0..15
rfid:wieg.strip.trail.bits?=0..15

RF IDEas>
```

1:57 24x80 0k 38400 N81

**Note:** The baud rates do not matter for CDC devices.

## Configuration Commands

All configuration commands begin with **rfid:**. Commands are not case sensitive.

Enter the following commands to familiarize yourself with the device:

- RF IDEas>**rfid:help** to get a list of commands
- RF IDEas>**rfid:var** to see the variables
- RF IDEas>**rfid:qid** to get the queued ID from the card
- RF IDEas>**rfid:op.sdk=t** to turn off the serial data
- RF IDEas>**rfid:op.sdk=f** to turn ON the serial data

For more details on these commands go to the 'ASCII Command Protocol' section in the pcProx, pcProx Plus, AIR ID Enroll and Wiegand Converter Configuration Utility User Manual.